

Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

VOLUME 57 (1991)

Micellization of ionic surfactants in tetrahydrofuran-water and acetonitrile-water mixed-solvent systems P.K. Misra, B.K. Mishra and G.B. Behera (Jyoti Vihar, India)	1
Preparation and characterization of Ti(IV) oxide grafted onto silica on a silica gel surface L.T. Kubota, Y. Gushikem, S. de Castro and J.C. Moreira (São Paulo, Brazil)	11
Synergistic wetting of coal by aqueous solutions of anionic surfactant and polyethylene oxide polymer H.W. Kilau and J.I. Voltz (Minneapolis, MN, USA)	17
Effect of preliminary treatment on the wetting properties of solid surfaces S.D. Tchaliyovska and E.N. Dimitrova (Sofia, Bulgaria) and J.E. Proust (Paris, France)	41
Hydrophobic interaction in flocculation and flotation. 1. Hydrophobic flocculation of fine mineral particles in aqueous solution S.C. Lu and S.X. Song (Hubei, China)	49
Hydrophobic interaction in flocculation and flotation. 2. Interaction between non-polar oil drop and hydrophobic mineral particle Z.F. Dai and S.C. Lu (Hubei, China)	61
Hydrophobic interaction in flocculation and flotation. 3. Role of hydrophobic interaction in particle-bubble attachment S.C. Lu (Hubei, China)	73
Water-in-crude oil emulsions from the Norwegian continental shelf. 4. Monolayer properties of the interfacially active crude oil fraction K.G. Nordli and J. Sjöblom (Bergen, Norway), J. Kizling and P. Stenius (Stockholm, Sweden)	83
Ultrafiltration of O/W emulsions stabilized by limiting amounts of tail oil M. Nyström (Lappeenranta, Finland)	99
Colloidal stability of polymer latices coated with human serum albumin H. Tamai, T. Oyanagi and T. Suzawa (Higashihiroshima-shi, Japan)	115
Conductivity, viscosity and spectral studies on manganese caprylate in alkanols K.N. Mehrotra, K. Tandon and M.K. Rawat (Agra, India)	125
A rheological investigation of peptized boehmite suspensions K. Strenge (Berlin, Germany) and U. Bollmann (Merseburg, Germany)	139
Characterization of cationic surfactant adsorbed layer on silica K. Esumi, T. Nagahama and K. Meguro (Tokyo, Japan)	149
Characterization of the porosity of silica gels by thermogravimetric analysis J. Goworek and W. Stefaniak (Lublin, Poland)	161
Water content and air flow behavior of coal slurries treated with cationic organofunctional silanes M.J. Owen and D.J. Romenesco (Midland, MI, USA)	167
Influence of plasma on surface properties of some inorganic oxide particles C.J. Zimmermann, R.E. Partch and E. Matijević (Potsdam, NY, USA)	177

Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

VOLUME 57 (1991)

Micellization of ionic surfactants in tetrahydrofuran-water and acetonitrile-water mixed-solvent systems P.K. Misra, B.K. Mishra and G.B. Behera (Jyoti Vihar, India)	1
Preparation and characterization of Ti(IV) oxide grafted onto silica on a silica gel surface L.T. Kubota, Y. Gushikem, S. de Castro and J.C. Moreira (São Paulo, Brazil)	11
Synergistic wetting of coal by aqueous solutions of anionic surfactant and polyethylene oxide polymer H.W. Kilau and J.I. Voltz (Minneapolis, MN, USA)	17
Effect of preliminary treatment on the wetting properties of solid surfaces S.D. Tchaliyovska and E.N. Dimitrova (Sofia, Bulgaria) and J.E. Proust (Paris, France)	41
Hydrophobic interaction in flocculation and flotation. 1. Hydrophobic flocculation of fine mineral particles in aqueous solution S.C. Lu and S.X. Song (Hubei, China)	49
Hydrophobic interaction in flocculation and flotation. 2. Interaction between non-polar oil drop and hydrophobic mineral particle Z.F. Dai and S.C. Lu (Hubei, China)	61
Hydrophobic interaction in flocculation and flotation. 3. Role of hydrophobic interaction in particle-bubble attachment S.C. Lu (Hubei, China)	73
Water-in-crude oil emulsions from the Norwegian continental shelf. 4. Monolayer properties of the interfacially active crude oil fraction K.G. Nordli and J. Sjöblom (Bergen, Norway), J. Kizling and P. Stenius (Stockholm, Sweden)	83
Ultrafiltration of O/W emulsions stabilized by limiting amounts of tail oil M. Nyström (Lappeenranta, Finland)	99
Colloidal stability of polymer latices coated with human serum albumin H. Tamai, T. Oyanagi and T. Suzawa (Higashihiroshima-shi, Japan)	115
Conductivity, viscosity and spectral studies on manganese caprylate in alkanols K.N. Mehrotra, K. Tandon and M.K. Rawat (Agra, India)	125
A rheological investigation of peptized boehmite suspensions K. Strenge (Berlin, Germany) and U. Bollmann (Merseburg, Germany)	139
Characterization of cationic surfactant adsorbed layer on silica K. Esumi, T. Nagahama and K. Meguro (Tokyo, Japan)	149
Characterization of the porosity of silica gels by thermogravimetric analysis J. Goworek and W. Stefaniak (Lublin, Poland)	161
Water content and air flow behavior of coal slurries treated with cationic organofunctional silanes M.J. Owen and D.J. Romenesco (Midland, MI, USA)	167
Influence of plasma on surface properties of some inorganic oxide particles C.J. Zimmermann, R.E. Partch and E. Matijević (Potsdam, NY, USA)	177

Depletion flocculation in dispersions of sterically-stabilised silica particles. 3. The effect of grafted chain coverage A. Milling, B. Vincent, S. Emmett and A. Jones (Bristol, UK)	185
Preparation and characterisation of polymerised proteovesicles M.D. Reboiras and M.N. Jones (Manchester, UK)	197
<i>Special Issue: The Chemistry of Interfaces. A collection of papers presented at the XIth. European Conference on the Chemistry of Interfaces held in Berlin, Germany, 23-28 April 1990</i>	
Properties and adsorption of fluorosurfactants from aqueous solutions on dyes using the contact angle method G. Hartmann (Berlin, Germany)	205
The behaviour of surfactants in concentrated acids. Part II. Formation of micelles from cationic surfactants in concentrated sulphuric acid A. Müller (Greifswald, Germany)	219
The behaviour of surfactants in concentrated acids. Part III. Surface activity of cationics in concentrated sulphuric acid A. Müller (Greifswald, Germany)	227
The behaviour of surfactants in concentrated acids. Part IV. Investigation of the synergism of binary/cationic mixtures in concentrated sulphuric acid A. Müller (Greifswald, Germany)	239
Kinetics of adsorption of ionic surfactants at the solution-air interface and the nature of the adsorption barrier V.B. Fainerman (Donetsk, USSR)	249
Analytical ultracentrifugation of magnetic fluids A. Seifert, N. Buske and K. Streng (Berlin-Adlershof, Germany)	267
Potentiometric negative electrolyte adsorption measurements on ionic surfactant micelles T. Gilányi and G. Horváth-Szabó (Budapest, Hungary)	273
Interfacial activity and kinetics and mechanism of copper extraction with 2-ethylhexanal oxime J. Szymanowski, A. Jakubiak and K. Alejski (Poznań, Poland)	283
Interfacial activity of some model extractants containing sulphur J. Szymanowski and I. Miesiąc (Poznań, Poland), K. Schügerl (Hannover, Germany), J. Beger and R. Jacobi (Freiberg, Germany)	295
Chemical structure and surface activity. Part XXIV. Adsorption of n-octyloligoxypropylene-oligoxyethylene block copolymers at the aqueous solution-air interface A. Sokolowski, B. Burczyk and H.-R. Holzbauer (Wrocław, Poland) and M. Herbst (Berlin, Germany)	307
Xanthate adsorption at PbS/aqueous interfaces: Comparison of XPS, infrared and electrochemical results K. Laajalehto and E. Suoninen (Turku, Finland), P. Nowak and A. Pomianowski (Cracow, Poland)	319
Non-equilibrium surface thermodynamics. Measurement of transient dynamic surface tension for fluid-fluid interfaces by the trapezoidal pulse technique G. Loglio, U. Tesei, N. Degli Innocenti and R. Cini (Firenze, Italy) and R. Miller (Berlin, Germany)	335
The experimentalists' kit to describe microemulsions W. Sager and H.-F. Eicke (Basel, Switzerland)	343
Direct measurements of interaction forces between bodies bearing thin double-layers D. Lorenz, Z. Adamczyk and P. Belouschek (Essen, Germany)	355
Characterization of solid surfaces by inverse gas chromatography U. Panzer (Dresden, Germany)	369

Introduction of surface charge into polymers by polyelectrolyte complexes	
U. Oertel, G. Petzold, H. Buchhammer, S. Geyer, S. Schwarz, U. Müller and M. Rätzsch (Dresden, Germany)	375
Synthesis and behaviour of nucleoside surface-active derivatives in monolayers	
T. Krauch, S.Yu. Zaitsev and V.P. Zubov (Moscow, USSR)	383
<i>Author Index</i>	393
<i>Subject Index</i>	394
<i>Contents (Vol. 57)</i>	396

